



Technical Data Sheet

POLYMARK P592

POLYURETHANE DOMING SYSTEM

Features:

- Fast Curing at 25°C
- Tough and Self-healing
- Solvent and Phthalate Free
- UV and Weathering Resistant
- Low Cost

Product Description:

Polymark P592 is a two component, room temperature curing polyurethane doming system. It is designed for covering of emblems and decals to produce an attractive 3-D product. Cured P592 is a tough, transparent elastomer with high gloss.

It is non-abrasive to dispensing equipment and well suited to automated operations. The cure time may be reduced with moderate heating. The low viscosity promotes self-levelling and good flow properties.

Typical Product Handling Properties:

<u>CHARACTERISTIC</u>	<u>VALUE</u>
RESIN:	
Color	Clear
Viscosity, 25°C	300 cps.
HARDENER:	
Color	Clear
Viscosity, 25°C	600 cps.
MIXING RATIO (Resin to Hardener):	
by weight	1 to 1
by volume	1 to 1
Gel Time, 25°C	20 minutes
Tack-free Time, 25°C	3-4 hours
Full Cure (2 mm), 25°C	24-48 hours

Typical Cured Physical Properties

<u>CHARACTERISTIC</u>	<u>VALUE</u>
Cured Density (g/cc)	1.04
Typical Coverage	1 g/sq in
Cured Appearance	Clear, High Gloss
Shore Hardness	A80-A90

Polymark P592 can be proportioned by weight or volume. These ratios are stoichiometrically calculated and should be closely followed. Automated meter-mix dispensing equipment may be used for high volume production.

P592 Resin and Hardener are hygroscopic and moisture sensitive. They must be kept away from atmospheric moisture during storage. After opening a sealed container, thoroughly purge the remaining air space with dry nitrogen (or equivalent inert gas) before closing the container. Desiccant cartridges may also be used.

Handling Safeguards:

Closely follow instructions on the labels of Polymark materials containing information on the hazards associated with each particular product. Most polyurethane resin systems are skin and eye irritants and can cause respiratory sensitization. Other problems, such as skin sensitization and more serious health hazards may exist. Consult the Safety Data Sheet for further information.

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Important Notice to Users: Typical properties are shown in this technical bulletin and should not be used or taken as specifications. Contact Polymark prior to establishing specifications. The information given for product description, handling properties and cured physical properties are offered solely to assist the purchaser's own testing. Polymark, its sales agents and distributors make NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. This product and all information supplied in connection with it is used at the purchaser's own risk, conditions of use being beyond Polymark's knowledge or control. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.